

ABSTRACT OF THE DISCLOSURE

The invention relates to a polymer of ethylene which has a μ_0/μ_2 ratio of at least 13; and a high load melt index HLMI lower than 8 g/ 10 min, and a value of $\tan \delta$ at $\omega/\omega_c = 0.01$ of less than 1.3, where δ is G''/G' , ω is the frequency at which G'' and G' are measured and ω_c is the frequency at which $G'' = G'$, and G and G'' are respectively the elastic modulus and viscous modulus, both measured in Pa at 190°C; a process for making the polymer using a catalyst comprising chromium supported on a silica-titania support is also described.